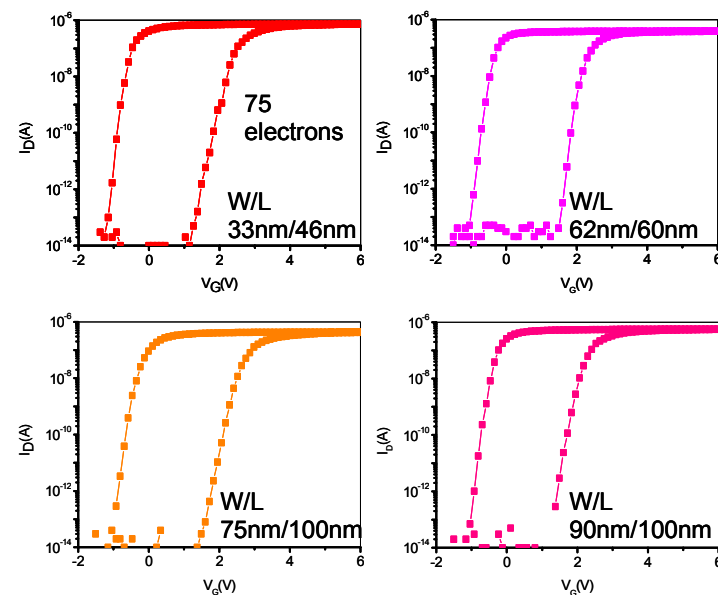
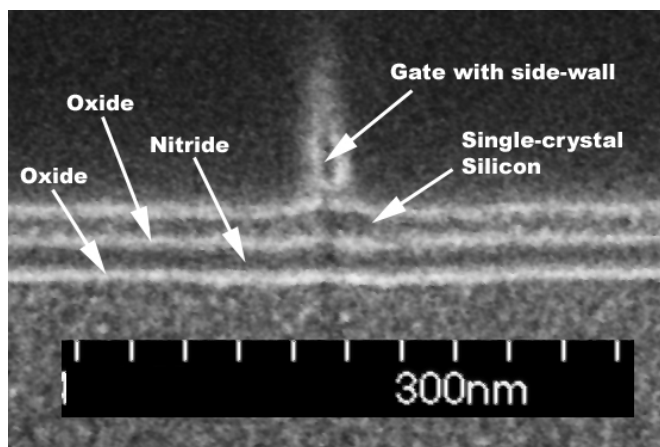
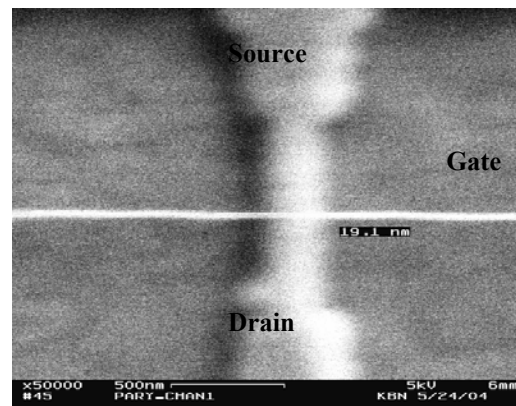


Nano-Scale Silicon Memories

- Non-volatile memories at 20 nm length scale in silicon using storage based on defects
 - High signal strength and reproducibility through use of integrated gain element with 50-75 electrons
 - Integrates with silicon technology
- These are the smallest electronic memories made and are compatible with silicon approaches



See H. Silva et al. *Tech. Dig. of IEDM* 271(2003)

PI: S. Tiwari; Cornell University
Work performed at CNF